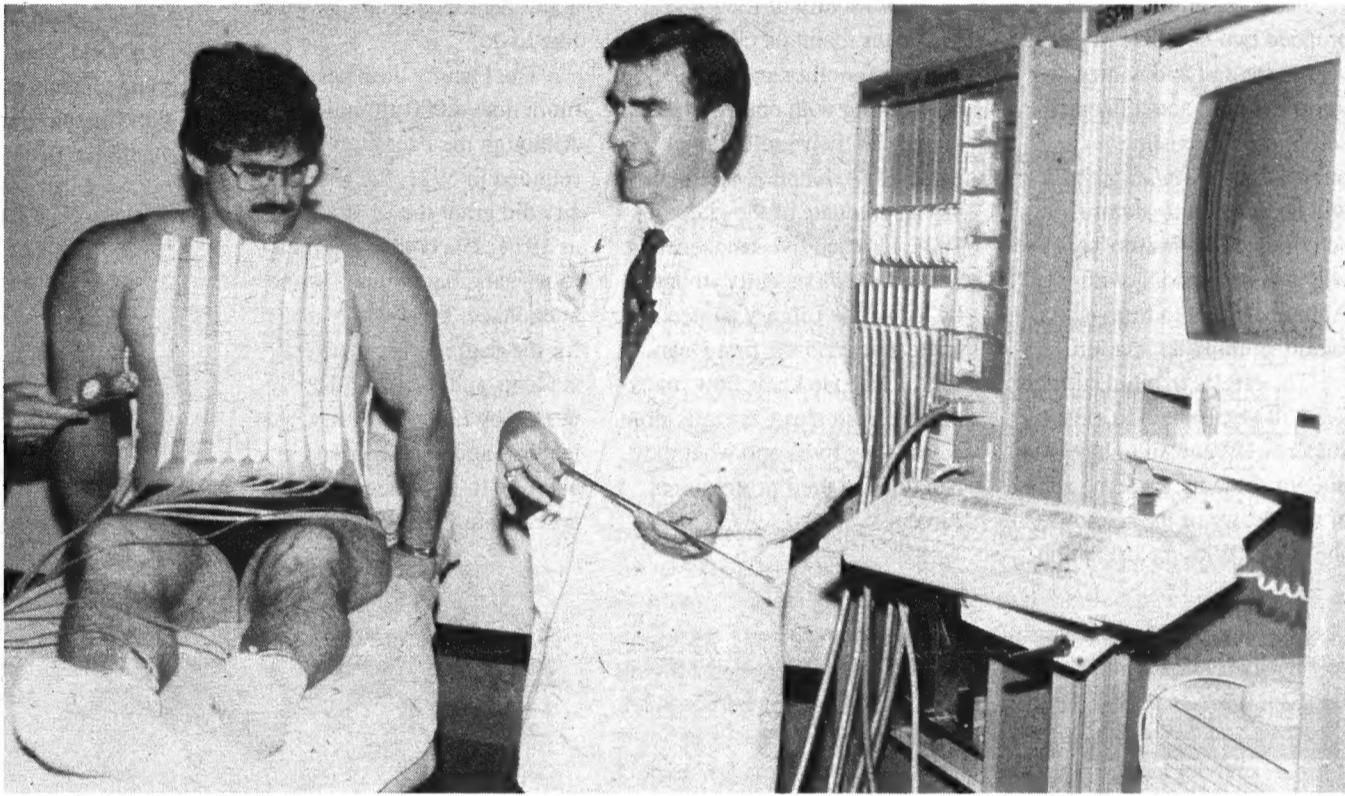


# FOLIO

27 SEPTEMBER 1990

## More help for the heart



A body surface potential mapping (BSPM) machine has been developed at the University of Alberta which researchers are confident will give them more accurate information about patients with coronary artery disease.

The machine was developed over two years by Frank Witkowski, a physician and engineer funded by the Heritage Medical Research Foundation.

The machine records electrical activity of the heart at 128 sites on the chest. There are a few other similar machines in North America, but none of them can give as much information or are portable for bedside use. Conventional electrocardiogram machines only record on 12 different sites.

BSPM is a computerized system of monitoring the efficiency of the heart by measuring its electrical activity. Electrodes are attached to the chest and the information is used by doctors to make decisions for patients who have serious heart disease.

Terry Montague, Head of Cardiology at University of Alberta Hospitals, demonstrates the body surface potential mapping machine, with the assistance of "patient" Rick Barr, who is attached to the machine with electrodes.

According to Terry Montague, Director of the Division of Cardiology at the University of Alberta Hospitals, the "leading edge technology" will allow the cardiologist to see information concerning the electrical properties of the patient's heart at the bedside "near instantaneously." This will allow cardiologists to make more rational decisions regarding treatment, he said, cautioning that the BSPM technology is at this stage a research tool that won't be applied to all patients.

The U of A system has two distinct advantages: it has higher resolution with less noise interference and it can record for 15 minutes, compared to conventional systems which can only record for a few minutes.

Dr Witkowski is researching what causes faulty heart rhythms that lead to sudden cardiac death. He is currently focusing on improving devices which are implanted in patients to regulate dangerously rapid heart beats.

Dr Montague, a BSPM specialist, points out that technology such as Dr Witkowski's machine can provide accurate information about patients with coronary artery disease and other heart problems. Current methods of getting this information are invasive and risky.

Software for the machine was developed by Joseph De Elmeida, a computer engineer in cardiology. Dr Witkowski is part of a team of seven new cardiac researchers recruited by the AHFMR and supported, in part, by AHFMR funding of \$2 million.

Dr Montague said "the magic is in the way we can record and analyze data."

He predicted that the technology would be commercially marketable within the next 10 years.

"We're confident it will give us answers we can rely on to make decisions about therapy," he said, adding that the technology will also be applied to research on sudden infant death syndrome.

Other studies using the BSPM technology include determining: how effective cholesterol lowering drugs for coronary artery disease are; who is at very high risk for a heart attack; whether the practice of treating older patients less aggressively aids or hinders chances for survival; whether new cardiac drugs help prevent death in patients with heart failure due to faulty left ventricles; and whether an entirely new therapy for heart attack patients could be developed by finding a new route for energy supplies to heart muscles when the normal route is blocked.

## Date set for GSA's court challenge

The Graduate Students' Association court challenge against the Board of Governors' decision to increase graduate student fees will be held 7 November, 2 pm, in the Law Courts.

The GSA is asking the courts to quash recently increased fees, arguing the fees exceed a 1990 15 percent cap set by the Minister of Advanced Education.

Continued on page 3

## INSIDE

- St Albert officials give Senate much to ponder
- Relations with Japan strengthened
- Conserver Society Project moves ahead

# Law looking for closer ties with alumni



Lillian MacPherson

**T**he Faculty of Law wants to build on an already strong relationship it has with its alumni by creating more formal links with them.

Lillian MacPherson, law librarian and now the Assistant Dean Alumni Affairs, says the Faculty has never had anyone dealing with alumni affairs.

"Classes organize reunions on their own, and clearly they have an interest in keeping up their associations," she says. "So we'd like to build on the alumni's loyalty to the law school and have more formal links."

Plans are under way to produce two newsletters per year in the fall and winter, to inform alumni about Faculty activities. An existing publication, *Without Prejudice*, will be devoted to alumni activities. MacPherson says she will also be working with Alumni Affairs to form a faculty alumni association.

The efforts to build stronger ties will also extend to existing students. "We want to have our present students get some sense of the history of the school," she says. "With the exception

of the pictures on the fourth floor of all the Deans and all the graduating classes, there is nothing in the school to detail the history of the school, and so I'd like to do some things to highlight for our own students the history of our school."

"In some ways there is a strong community there already, and what we're trying to do is make the Faculty of Law more accessible to them," she says. "We want them to know what we're doing and we want to know what they're doing. And we've had no organized way of going about that."

The Faculty of Law's graduates maintain close ties with one another and often end up working with one another for the rest of their professional lives. For example, MacPherson says a graduate of the class of 1926 who had lived most of his life in Ottawa recently stopped by to see the Library named after his teacher and the first Dean, John Weir. He knew how many of his classmates were still alive, where they lived and what they had done in their professional careers.

One of the Faculty's objectives is to maintain the financial support from an alumni MacPherson characterizes as "quite generous. There's no question that in today's world you must have a base. If the alumni don't feel any loyalty to the school, then you don't have a base on which to go and say to them 'the Faculty is trying to do something here and we need your help,'" she says.

"As the program develops, we'll get ideas from the alumni about what they're interested in and we'll get more ideas about the kinds of things we'd like to do."

The Faculty now has more than 4,000 alumni. Although the Faculty was founded in 1921, the University did grant the LLB as early as 1914. The course required four years, but not in fulltime attendance. Most who enrolled for the degree were articled students and obtained the degree by taking the prescribed lectures and examinations in addition to those required of articled students.

## Lecture series examines material culture

"It's a Material World" is a new lecture series that brings together speakers from different departments on campus.

The series, organized by the Department of Clothing and Textiles, has a fall semester titled "Objects, the Other, and Ourselves," and a winter semester called "Objects in (and Extracted From) Their Native World."

David Young (Anthropology) leads off the series with "Japan: Canons of Aesthetic Taste" (4 October, 7:30 pm, 207a Law Centre).

Seven other lectures will follow, with the series concluding 21 March. The lectures are free and open to all interested parties in the University and the larger community. Lectures will be 45 minutes long, followed by a short break and a 30-minute discussion period.

Entries in "It's a Material World" will be listed in the "Talks" section of *Folio*.

## LETTERS

### READER TAKES UMBRAGE AT NEW FOLIO

I was appalled at the appearance of the "new" *Folio* in my mailbox.

For many years I have watched the Visual Identity Committee implement the University's design standards, established by Professor Walter Jungkind. Those standards have helped build, maintain and strengthen our institution's visual identity because of the quality and consistency of the design of our publications and countless other visual communications. I studied under Professor Jungkind as an undergraduate student and worked as his assistant on the design of the University's stationery and on the stationery standards guidelines for our visual identity.

changes in production methods or design and production personnel.

The changes made in the design and layout of *Folio* disregard completely the standards set out in a visual identity system of very high quality, defeating the reason for having it. The changes compromise the integrity of *Folio* as a University publication, belying its purpose and content and apparently addressing an entirely different audience. The University has a responsibility to act as a leader in all aspects of its dealings with the community. It is vital for the University to set an example of high standards, to project a strong image and maintain a high profile in the community through its visual communications. The "new look" for *Folio* does just the opposite.

*Susan Colberg  
Graduate student, Visual  
Communication Design*

*Ed note: Folio consulted with members of the Visual Identity Committee who approve of the new style and format. Folio remains committed to the Visual Identity*

*Program, and believes that the program's strength lies in its flexibility and adaptability to new design ideas.*

### SELF-MOTIVATION WON'T WASH

On a recent radio talk show in Edmonton, Advanced Education Minister John Gogo suggested that the "self-motivation" of students was the solution to quality in advanced education. Aside from his downplaying of the Conservative government's failure to provide adequate resources and facilities for an accessible, quality postsecondary education system, Mr Gogo's comments are incredibly insulting to the great majority of postsecondary students. These students are extremely motivated to get through their studies, despite the obstacles thrown at them by a deteriorating advanced education system.

Self-motivation can't solve the problems when classes are so large that the student will never write an essay or even meet the instructor in person. It won't help the students who are already having to wait until the

middle of the night to get onto computer terminals. It won't help those who have to watch, instead of conduct laboratory experiments, due to lack of equipment and space. It won't meet the needs of students who look for scholarly journals that have been cut by libraries for budgetary reasons or those whose access to libraries will be limited by the cuts in operating hours. And it certainly won't be of any comfort to the many hundreds of Alberta students who qualify for entrance into universities and colleges but have been turned away due to quotas.

It's time for the Minister to stop blaming the victims of advanced education's flaws and do something to address the very real and very urgent needs in Alberta's colleges and universities.

*Yolande Gagnon  
MLA, Calgary McKnight,  
and Liberal Critic for  
Advanced Education*

## FOLIO

VOLUME 28 NUMBER 8

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Public Affairs produces *Folio* on a regular basis for the staff and other interested persons.

### DEADLINES:

Notice of coming events: 9 am three weeks in advance of event.

Classified advertisements: 3 pm one week before desired publication date. This date also serves as the deadline for cancellation of advertisements. Advertisements cost 40 cents per word with no discount for subsequent insertions. There is a limit of 30 words and a minimum charge of \$2.00.

Advertisements cannot be accepted over the telephone.

All advertisements must be paid for in full at the time of their submission.

Display advertisements: 3 pm Wednesday, eight days before desired publication date. Camera ready artwork is required to size, complete with halftones if necessary. Contact Public Affairs for sizes, rates and other particulars.

The editor reserves the right to limit, select, edit and position submitted copy and advertisements. Views expressed in *Folio* do not necessarily reflect University policy.

*Folio* contents may be reprinted with acknowledgment.

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University of Alberta

# Observatory open to the public

The Campus Observatory on the 7th floor of the Physics Building is again open to the public during the academic year.

The doors are open every Friday evening, except 22 February 1991, from 8 to 10 pm. There will be two one-hour sessions each evening with up to 30 people in each. Call the Office of Public Affairs, 492-2325, for reservations.

Organized groups, such as Cubs, may make prior arrangements to visit on other nights of the week. Group leaders who wish to arrange special visits can do so by phoning 492-3439 between 11 am and noon on Mondays and Tuesdays, or by phoning Doug Hube at 492-5410.

The Friday night tours began 21 September and end 30 November for the current term; in the new year, tours will run from 11 January to 22 March.

Krista Stefan is in charge of the program.



Michelle Demers is the 1989-90 AWA Women's Studies Scholarship winner. An artist, Demers is interested in creating feminist images of women and others whose value and social contributions have been abused or denied. Currently, these images are photographic; many of them will be displayed at Celebration of Women in the Arts, Petro Canada Gallery Exhibition, in Calgary, 2 to 26 October.

## UNIVERSITY PROFESSORSHIPS

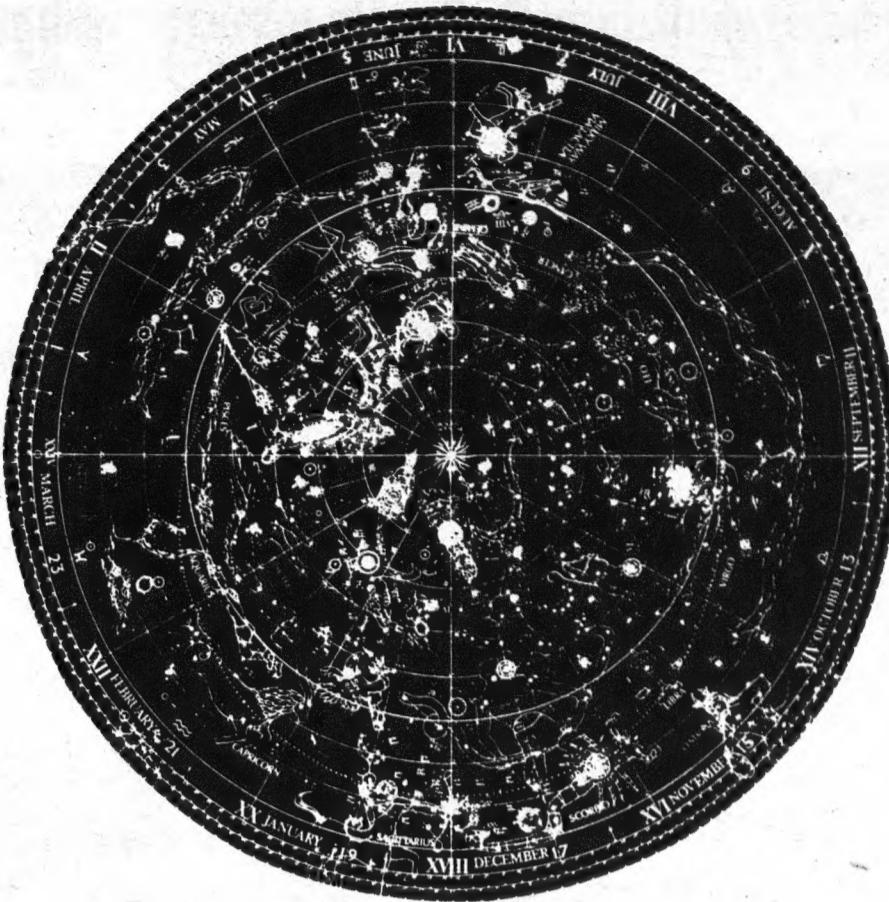
The Selection Committee for University Professorships will be considering nominations later in the fall. This title honors professors whose academic, professional and community contributions have been exceptionally meritorious.

Nominations should be submitted to the Vice-President (Academic) by 31 October. Copies of the criteria for University Professor nominations may be obtained from Ms Dorothy Gamble, Office of the Vice-President (Academic), 3-4 University Hall (492-3443).

## UNIVERSITY/COMMUNITY SPECIAL PROJECTS FUND

The next deadline for submission of applications to the Endowment Fund for the Future: University/Community Special Projects Fund is 15 October 1990.

For application form, and terms of reference, and to submit projects, contact: The Secretary, U/CSPF, 3-6 University Hall, 492-5580.



## GSA

Continued from page 1

The University argues that the Board of Governors is within its powers to increase the continuous registration fee. That fee was raised from \$52 per term to \$249.

The Board of Governors points out that similar fees across the country are substantially higher than those historically charged by the University of Alberta.

Addressing the University of Alberta Senate 14 September, GSA Vice-President (External) Ken Ross said, "The Attorney General has advised that he believes that this fee is not a fee for instruction. We sought a legal opinion. That opinion backed up our own beliefs that the fee increase may not be legal. The only way to find out is to ask the courts," Ross outlined.

Michael Welsh, who chairs the Board of Governors Finance Committee, told Senators "we are saddened it had to come to this. We're still well below the national average, we think we're within the provisions of law and *The Universities Act* and we have written confirmation, as does GSA, from the Minister of Advanced Education and the Attorney General."

Ross stated that the GSA council has set aside \$10,000 to spend on the court challenge. "We feel that it is an important matter of principle. And there is no one grad student who could challenge the fee on his/her behalf. We have a moral obligation to them to pursue this. We have initiated a defence fund to ensure that we can mount an effective case."

In other developments, the Students' Union voted earlier this month to allot \$1,000 to support the GSA court case.

## FOR THE RECORD

The Kurimoto Japanese Garden (*Folio*, 13 September) is one of the Gardens that make up the University of Alberta Devonian Botanic Garden.

All the funding for construction of the Kurimoto Garden came from private sources and was matched by the provincial government.

Entrance fees—\$3 for adults, \$2 for seniors, \$1 for children—are in effect so that no maintenance costs become a charge on University funds.

The Kurimoto Japanese Garden is open from 10 am to 6 pm daily until 30 September when the entire Devonian Botanic Garden is scheduled to close for the season. However, that date may be extended should the good weather continue.

## Governor of Hokkaido gifts Library

What better way for a university to benefit from an affiliation than with a gift of books? That's what happened 14 September when the Governor of Hokkaido visited campus to help commemorate the 10th anniversary of the linking of Hokkaido and Alberta.

Takahiro Yokomichi, who led a 750-member delegation to Alberta on 12 September for a week of activities celebrating the relationship that the two provinces enjoy, presented 127 books (in the Japanese language) and 10 videos to the University Library.

Governor Yokomichi said we're living in an age of no borders between countries and it's more important than ever to enhance our understanding of other nations. In addition to the various initiatives of the governments of the two provinces, he said he was particularly pleased with the many exchanges between schools and universities.

In thanking Governor Yokomichi, Margaret Van de Pitte, Associate Dean (Humanities), Faculty of Arts, said, "I would think we're getting quite used to Japanese generosity." She referred to the Department of East Asian Languages and Literatures and how, with ample support from the Japan Foundation and other bodies, it has progressed to the point where it is one of the best departments of its kind in North America in terms of language instruction.

In Arts this year (1990-91), 422 people have enrolled in a formal credit program in Japanese studies in the Department of East Asian Languages and Literatures alone. (Another 208 people had to be turned down.)

There are currently three different movements—in the Faculties of Arts, Business, and Graduate Studies and Research—to expand Japanese studies. Professor Van de Pitte pointed out. "If these come into being, and we hope they will, there will be about 1,000 people engaged in Japanese studies."

Sieglinde Rooney, who accepted the gift on behalf of the Library, said the books will be available far and wide through a network that the U of A belongs to.



## U OF A, SHIZUOKA UNIVERSITY Partners in education

The University of Alberta has affiliation agreements with 27 universities outside Canada. Shizuoka University in Japan is the latest institution to be added to the list, President Nobuhiro Uehara's visit last week marking the formalization of the agreement that was signed 24 May in Japan.

The crux of the agreement is that the two universities "agree to cooperate in order to expand opportunities for the education of students and to further develop academic research among faculty members."

Shizuoka University is one of Japan's national universities. It was founded in 1949 and has six Faculties: Humanities and Social Sciences, Education, Science, Engineering, Agriculture and Liberal Arts.

Shizuoka City is on the Pacific Ocean, 180 kms southwest of Tokyo. While it has some light industry, this city of 500,000 is principally renowned for its production of green tea, tangerines and strawberries.

Throughout the 1980s, the University of Alberta and Shizuoka University have swapped ideas, concepts and theories in a variety of disciplines, for example, drama, animal science, physics, electronic engineering and mathematics.

### RETIREMENT PLANNING SEMINAR FOR ACADEMIC STAFF

**Topics:** Issues in Planning/Keys to Successful Planning, Financial Planning - Pensions, Establishing Lifestyle, Protecting Your Assets, etc; Lifestyle Considerations (optional)

There is no charge for the seminar; coffee and lunch (on 23 November) will be provided.

Enrollment is limited and will be on a first come, first served basis. If you are interested in attending, please call Diane Shaw at 492-5321.

**Registration deadline:** 15 October.

Reunion Weekend '90 took place last week. One of the many events was a reception on the sixth floor of the Humanities Centre, hosted by the Faculty of Arts. Alumni met Dean Patricia Clements, listened to music provided by the Music Department and relived past days at their alma mater.

## Conserver Society Project proceeds

Acting Dean Wayne Lamble, Faculty of Extension, has approved the Conserver Society Project (CSP) on campus. (A form, published in *Folio*, 9 August, asked for response to the concept of a Conserver Society project. There were 92 replies from across campus.)

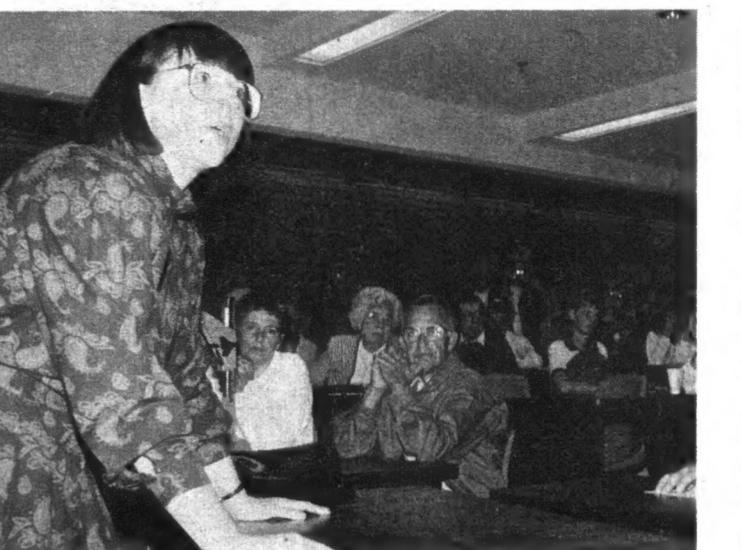
Gerry Wright (Community Resources Development and Public Affairs), will direct CSP.

Senior curriculum program development officer, Sheila Abercrombie, has joined Extension staff, and Maryanne Budnitsky, coordinator and co-founder of the Summer Youth University program, is adding the start-up and development of CSP to her existing SYU duties.

Watch for CSP announcements in *Folio*.



**THE SKY'S THE LIMIT**  
The notation on the packet said the sunflower stalks would reach seven or eight feet. Father Brian Inglis of St Joseph's College must be saying what these plants want to hear because they're up to the 14-foot mark. Clearly, his next move is to get in touch with "Ripley's Believe It or Not."



The University flung open its doors last Saturday and invited the public in to listen to 30 professors present lively presentations on topics geared to lay audiences. The "Super Saturday" event was the second annual. Here, Anne McLellan (Law) discusses Canada after Meech.

## CURRENTS

### FSIDA DEADLINE

The next deadline for the submission of applications to the Fund for Support of International Development Activities is 15 October 1990.

Late applications will not be considered until the 15 January deadline.

Project proposals should be directed to the Office of Brian L. Evans, Chair, FSIDA, and Associate Vice-President (International Affairs), 3-12 University Hall.

### CHAIR SELECTION COMMITTEES: FACULTY OF ARTS

Chair Selection Committees are being established to select new Chairs for the Departments of Comparative Literature, History, Linguistics, Philosophy, Psychology and Religious Studies. These committees are prepared to receive nominations and comments from members of the University community; they should be addressed to Dr Patricia Clements, Dean of Arts.

### 'BICYCLES ON CAMPUS' BROCHURE

The Bicycles on Campus Committee (Chair: Doug Langevin) has just published a brochure containing the University's Bicycle Operating and Parking Regulations.

There's also a section on bicycle etiquette and safety tips and general information.

Copies are available through Campus Security, Parking Services, the Students' Union and Public Affairs.

## Satellite campus proposed for St Albert

The University of Alberta should establish a satellite campus in the City of St Albert, the University Senate was told at its 14 September meeting at St Albert Place.

City officials told Senators that St Albert students are finding it increasingly difficult to pursue a quality education in the professions because of the University's recent enrollment policies.

"Our committee believes that one of the best ways to relieve this situation is for the University of Alberta to establish a satellite campus in St Albert," the delegation said.

City officials told Senators that more than 35 percent of St Albert's grade 12 students re-enroll for all or part of a second year, most to meet rising entrance requirements at the University of Alberta. "A satellite campus could establish a transitional program enabling students to simultaneously upgrade in one or two courses and begin their professional education," their brief outlined.

The student is, therefore, delayed and parents and ratepayers must foot the bill for the expansion of grade 12 enrollments, Senate heard.

Citing growing high school enrollments in the city and in

Edmonton's northwest area, officials contend that large numbers of students could be served by a local campus.

A satellite campus would

provide the means by which our existing and expanding postsecondary educational needs could be addressed," said the brief. "Of particular interest to our students would be emphasis on the teaching function in lieu of research.

"As a transitional means of improving contact and services between St Albert and the University, we would welcome a dialogue which would explore ways for the University to develop another institution to emphasize teaching and the preparation of our young people for the various professions, since these two serious nature."

Third, the brief questioned whether the Faculty of

Extension was duplicating functions best left to institutions such as NAIT and Grant MacEwan Community College.

City officials also suggested the University consider year-round operations as a possible means of reducing costs. "We are

concerned that the University we consider our own has adopted an 'a-no-growth' posture

in a 'growth' environment.

He pointed out that in the country's colleges, research is strictly secondary. "We have a great many institutions in which teaching is the primary, if not the sole, role of some departments at the post-secondary level, but that's not the case for a university," he said, adding that universities are constantly debating the relative importance of teaching and research.

Vice-President (Academic) Peter Meekison said a recent Advanced Education discussion paper on the issue of accessibility outlined five different scenarios. The U of A response was that the best way to go was to expand existing institutions.

"I feel we must become more innovative," he said, noting the recent U of A/Red Deer College program whereby U of A nursing degrees will be offered in Red Deer. "So it seems to me that there are ways the University can go beyond the confines of the campus." He also said there's no reason the University couldn't examine offering courses in St Albert.

St Albert Mayor Anita Ratchinsky said the city's proposal was a good overview of the community's needs, focusing on fairness, cost effectiveness and accessibility.

### "A SATELLITE CAMPUS WOULD PROVIDE THE MEANS BY WHICH OUR EXISTING AND EXPANDING POSTSECONDARY EDUCATIONAL NEEDS COULD BE ADDRESSED.."

These perceptions, many of which are likely unfounded and probably unfair, are, however, more widely held than is healthy for the University," the brief said. "Perhaps one solution is to declare the U of A a research institution and to

## EVENTS

### TALKS

#### LIMNOLOGY AND FISHERIES DISCUSSION GROUP

27 September, 12:30 pm  
Michael Arts, National Hydrology Research Institute, "Ecological Significance of Lipid Energy Reserves in Zooplankton Population Dynamics." M-149 Biological Sciences Centre.

4 October, 12:30 pm  
Max Bothwell, National Hydrology Research Institute, "Long-Term Impacts of Pulp Mill Effluent on Areal Production in the Thompson River, British Columbia." M-149 Biological Sciences Centre.

11 October, 12:30 pm  
Jeff Curtis, "Techniques and Assumptions for Element Mass Balances in Lakes: A Case Study." M-149 Biological Sciences Building.

#### CLOTHING AND TEXTILES

27 September, 1 pm  
Sandra Niessen, "The Invention of a Batak Textile." 131 Home Economics Building.

4 October, 1 pm  
Aileen McKinnon, "Problem With Metis Terminology." 131 Home Economics Building.

11 October, 1 pm  
Marlene Cox-Bishop, "Fieldwork as an Example of Interpretive Inquiry." 131 Home Economics Building.

#### CHEMICAL ENGINEERING

27 September, 3 pm  
PK Yegneswaran, "Monte Carlo Approach to Evaluate Bioreactor Performance During Scale-Up." E-342 Chemical-Mineral Engineering Building.

4 October, 3 pm  
Andree Koenig, "Information About Chemicals and Safety Practices." E342 Chemical-Mineral Engineering Building.

11 October, 3:30 pm  
R Byron Bird, professor, University of Wisconsin at Madison, and the 1990 C-I-L Distinguished Lecturer in Chemical Engineering, "Polymer Fluid Dynamics: Experimental Facts and Non-Molecular Explanations." 344 Chemical-Mineral Engineering Building.

12 October, 3:30 pm  
R Byron Bird, "Polymer Fluid Dynamics: The Quest for Molecular Explanations for Polymer Flow Phenomena." 344 Chemical-Mineral Engineering Building.

#### GEOPGRAPHY

27 September, 3:30 pm  
Bob Bone, University of Saskatchewan, "Population in the Canadian North." 3-36 Tory Building.

#### SLAVIC AND EAST EUROPEAN STUDIES

27 September, 3:30 pm  
TMS Priestly, "Comitatives and the Dual in Slovene: Why Mizbratoma is Triply Ambiguous." 436 Arts Building.

1 October, 3 pm  
Kyrylo Stetsenko, Kyiv, Ukraine, "The Resurgence of Interest in Folklore and its Influence on Contemporary Ukrainian Music." (In Ukrainian.) 141 Arts Building.

4 October, 3 pm  
A Hornjatkevyc, "Drahomann's Orthography: A Noble Failure?" 436 Arts Building.

5 October, 3 pm  
Zenon Elyjiw, Rochester, New York, "Systems for Classifying Ukrainian Pysanky." (In Ukrainian.) 141 Arts Building.

11 October, 12:30 pm  
Jeff Curtis, "Techniques and Assumptions for Element Mass Balances in Lakes: A Case Study." M-149 Biological Sciences Building.

11 October, 12:30 pm  
Hosam ElBadrawy, "Thoughts on the Art and Science of Lecturing and Interacting with Students." TBW-2 Tory Breezeway.

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# POSITIONS

## CONTEMPORARY CULTURAL ISSUES

4 October, 3:30 pm  
Michael Kaufman, Department of Political Science, York University, "Men in Feminism." L-3 Humanities Centre.

## ART AND DESIGN

4 October, 5 pm  
Anna Loseva, professor, Leningrad Academy of Fine Arts, USSR, "The Academy System: The State of Fine Arts Education in the Soviet Union." To be followed by a question period on open topics. L-1 Humanities Centre.

## ECONOMICS AND HISTORY

5 October, 3 pm  
Daniel Klein, University of California, Irvine, "The Voluntary Provision of Public Goods? The Turnpike Companies of Early America." 8-22 Tory Building.

## LIBRARY AND INFORMATION STUDIES

10 October, noon  
D Oberg, "Implementation of a School Library Program: A Case Study in Change." 3-01 Rutherford South.

# ARTS

## EXHIBITIONS

### FAB GALLERY

Until 28 September  
"Canada Council Art Bank"—visual art in all media from all regions of Canada. Gallery hours: 492-2081. 1-1 Fine Arts Building.

### MCMULLEN GALLERY

Until 30 November  
"Traditional Arts of Japan"—selected examples of traditional art, craft and Japanese culture. Gallery hours: 492-8428 or 492-4211. Walter C Mackenzie Health Sciences Centre.

### MYER HOROWITZ THEATRE

28 September, 8 pm  
"Jesus of Montreal."

### MUSIC

29 September, 8 pm  
"Encounters I." Admission: \$5/adults; \$3/students and seniors. Convocation Hall.

*The University of Alberta is committed to the principle of equity in employment. The University encourages applications from aboriginal persons, disabled persons, members of visible minorities and women.*

### SUPPORT STAFF

*To obtain further information on the following positions, please contact Personnel Services and Staff Relations, 2-40 Assiniboia Hall, telephone 492-5201. Due to publication lead time and the fact that positions are filled on an ongoing basis, these vacancies cannot be guaranteed beyond 21 September. For a more up-to-date listing, please consult the weekly Employment Opportunities Bulletin and/or the postings in PSSR.*

*Positions available as of 21 September 1990.*

**The salary rates for the following positions reflect adjustments in accordance with the terms for the implementation of the Pay Equity Program.**

**Clerk Typist, Grade 3, University Health Services, (\$1,497-\$1,844)**

**Clerk Typist (Half-time) (Term to 31 March 1991), Grade 4, Faculty of Nursing (\$817-\$1,006) (prorated)**

**Clerk Steno (Half-time), Grade 4, Food Science, (\$817-\$1,006) (prorated)**

**Clerk Steno, Grade 4, Educational Psychology, (\$1,633-\$2,013)**

**Library Clerk (Recurring term), Grade 4, Health Sciences Library, (\$1,633-\$2,013)**

**Clerk Typist, Grade 5, Student Awards, (\$1,752-\$2,210)**

**Library Assistant, Grade 5, Memorial Law Library, (\$1,784-\$2,210)**

**Student Records Processing Clerk, Grade 5, Faculty of Medicine, (\$1,784-\$2,210)**

**Clerk Steno (Half-time), Grade 5, Faculty of Business (Marketing and Economic Analysis), (\$892-\$1,105) (prorated)**

**Administrative Clerk, Grade 5, Office of the Registrar, (\$1,784-\$2,210)**

**Secretary, Grade 5, Home Economics (Foods and Nutrition), (\$1,784-\$2,210)**

**Secretary, Grade 5, Ophthalmology, (\$1,784-\$2,210)**

**Administrative/Executive Secretary, Grade 5, Biochemistry, (\$1,784-\$2,210)**

**Administrative/Executive Secretary, Grade 6, Pediatrics, (\$1,952-\$2,433)**

**Medical Steno, Grade 6, Medicine (Hematology), (\$1,952-\$2,433)**

**Office Services Senior Clerk (Student Records), Grade 6, Faculty of Agriculture and Forestry, (\$1,952-\$2,433)**

**Food Services Assistant (40 hours/week) (Recurring term), Grade 1, Housing and Food Services, (\$1,442-\$1,778)**

**Food Service Worker (Recurring term), Grade 2, Housing and Food Services, (\$1,558-\$1,921)**

**Programmer Analyst, Grade 9, University Computing Systems, (\$2,484-\$3,152)**

**Dental Technician, Grade 11, Restorative Dentistry, (\$2,867-\$3,679)**

**The following positions retain salary rates in accordance with the previous classification system and pay plan.**

**Clerk Steno III (Trust), Canadian Institute of Ukrainian Studies, (\$1,505-\$1,890)**

**Pension Project Clerk (Term to 31 March 1991), Pension and Benefits Administration, (\$1,677-\$2,433)**

**Medical Steno (Trust), Medicine (Neurological Sciences), (\$1,677-\$2,143)**

**Departmental/Executive Secretary (Trust), Medicine (Cardiology), (\$1,890-\$2,433)**

**Technologist I (Trust), Pharmacology, (\$2,143-\$2,765)**

# ADS

### ACCOMMODATIONS AVAILABLE

**Victoria Properties** - Experienced, knowledgeable realtor with Edmonton references will answer all queries, and send information. No cost or obligation. Call (604) 595-3200, Lois Dutton, Re/Max Ports West, Victoria, BC.

**Sale** - Belgravia, custom two storey. Ideal for professionals.

Hardwood, loft, skylite, fireplace, balcony, double garage. Low maintenance, open plan. 11604 74 Avenue. \$212,000. Hugh Moncrieff, Re/Max Realty, 438-1575.

**Sale** - Laurier, view, excellent mortgage, upgraded, four bedroom. Developed walkout basement. Resi Richter, Royal LePage Realty, 483-9432.

**Sale** - Old Strathcona, elegant, new, Victorian two storey. Marble fireplace, 3/4" oak hardwood, covered veranda, spacious oak kitchen, many unique features. \$189,900. Ed Lastiwka, Royal LePage Realty, 437-7480, 437-4984.

**Sale** - Grandview Drive, \$269,900, custom built, 2,000' bungalow facing the river valley. Three fireplaces, sun room, finished basement, south backyard. Ed Lastiwka, Royal LePage Realty, 437-7480, 446-3800.

**Sale** - Garneau, two storey condominium with underground parking, skylights, two bedrooms, fireplace. Immediate possession, phone Valerie Cload, Spencer Realty, 436-5250, 433-4720.

**Rent** - Valleyview, furnished home. January-August/September 1991. Rent negotiable. Nonsmokers. References required. 483-4649.

**Sale** - Windsor Park bungalow on beautiful, quiet, sunny lot. By owner. 433-8250, 492-0353.

**Sale** - Two storey, 2,798'. Three bedrooms, two baths.

Energy efficient, R40 walls, R60 ceiling. Attached garage, three acres, creek. Many trees, shrubs, perennials. Joe Wedman, Parkland Agencies, 426-5543, 1-352-4270 residence.

**Rent** - Sabbatical house, furnished, fireplace, three bedrooms. Overlooking Mill Creek. January-July 1991. 439-9393.

**Rent** - Old Scona, near Saskatchewan Drive. Large lower suite, attached garage, five appliances. Near University, downtown. Mature, quiet, responsible tenants. Nonsmoking, no pets. Available 1 October. 431-1421.

**Sale** - Riverbend, just listed, 2,600', two storey. Finished basement, grey carpeting, hardwood, energy efficient. Carole-Anne Brown, Spencer Realty, 436-5250.

**Sale** - Riverbend bungalow, 1,700'. Family room, near schools and direct bus to University. Carole-Anne Brown, Spencer Realty, 436-5250.

**Rent** - Old Strathcona, ravine frontage, unfurnished, two bedroom, older bungalow.

Developed basement with extra bedroom, two bathrooms, sauna. Fireplace, garage, easy University access. \$1,200/month, 1 October. 439-8630.

**Rent/Sale** - Belgravia, four bedroom, two bathroom, semibungalow. Developed basement. Near campus, public transit. 438-0028, 492-5071.

**Rent** - Aspen Gardens bungalow. Quiet location, like new, furnished or unfurnished. October-June. \$1,200/month. Western Relocation, 434-4629.

**Rent** - Riverbend/Brander, exquisite river valley home. Six bedrooms, 3 1/2 baths, \$2,000/month lease. Western Relocation, 434-4629.

**Sale** - Elegant, Victorian style townhouse. Two years old, one block to river valley. Fireplace, jacuzzi, wet bar. Immediate possession. \$225,000. Janet Jenner or Jean Mill, Home Life Success Realty, 434-3334, 436-1469.

**Sale** - Two storey condo near Edmonton Golf and Country Club. Two bedroom with loft, double attached garage. \$220,000. Janet Jenner or Jean Mill, Home Life Success Realty, 434-3334, 436-1469.

**Sale** - Glenora, 1 1/2 storey. Well maintained, hardwood floors, good location. Quick access to University. Chris Tenove, 436-5250, 433-5664, Spencer Realty.

**Sale** - Holroyd bungalow. Super location, drive by 9527 81 Street, then call Chris Tenove, 436-5250, 433-5664, Spencer Realty.

**Sale** - Rowland Road view property. Call Chris Tenove, 436-5250, 433-5664, Spencer Realty.

**Sale** - Wabamun lakefront cottage. Chris Tenove, 436-5250, 433-5664, Spencer Realty.

**Sale** - Sophisticated condominium, suits University/Hospital staff. Terrific location, design, quality. Fireplace, tree top balcony, formal dining room. Master and study. Pat vonBorstel, 436-5250, Spencer Real Estate, 437-6540.

**Rent** - Two bedroom house. One block from campus. \$800/month for 1 October. Phone 456-6271 or 423-8512.

**Sale** - Only six months old, beautiful bilevel in Strathcona. Vaulted ceilings. Oak trim, doors, flooring, kitchen. Mint condition! Can be seen on short notice. Tim Hennigar, Re/Max Real Estate, 439-7000.

**Sale** - Blue Quill, five bedroom, Clarendon built, 2,500'. Call Sherry Mailo, Re/Max Realty, 438-7000.

**Sale** - Grandview, upgraded, 1,700' split, \$169,900; Lansdowne, beautifully redone bungalow, 1,340', \$155,900; executive acreage, city water, 3,200' bungalow; luxury condo, southwest, immaculate, \$184,000. Sherry Mailo, Re/Max Realty, 438-7000.

**ACCOMMODATIONS WANTED**

**Australian PhD student** needs self contained accommodation. January-May 1991. Walking University. Housesitting ok. 433-6162 before 22 September, 436-0732 after.

**Wanted to rent** - House, 2-3 bedroom, reasonable commuting distance to University. By professional, nonsmoking couple with two well mannered collies (kennel provided). Prefer south side. Date flexible, 492-5724 or 437-1391.

**Professional business lady**, 34, will housesit. Would prefer long term. Reliable nonsmoker. References supplied. Please call Dianne, 487-3878 and leave message anytime.

### AUTOMOBILES AND OTHERS

**Wanted** - Garage in Belgravia area to store older car through winter. Mike, 434-6139 or 492-6386.

**Audi 5000S**, 1987, superb condition. Heated seats, remote stereo, etc. \$14,200 obo. 478-8116.

### GOODS FOR SALE

**Cash paid for appliances**, 432-0272.

**The Edmonton Book Store** specializes in books for the University community. Quality books bought and sold every day; just a short walk from campus, 8530 109 Street. Call 433-1781.

**AJ510 video terminal**, visual editing, \$200 obo. 433-8302.

**Products for Mac, PC, Atari, Amiga**. Bulk 3.5" from \$79; Mac hard drives, 40 mb, \$725; Mac carry cases, \$59; 2400B modems \$159; Mac/Atari RAM \$99; IBM compatibles and more. The Byte Track, Edmonton, 493-8125.

**Two room tent with awning**, used twice, \$195. 435-0845, evenings.

**Diving suit**, 1/4", ladies large, two piece, \$185. 435-0845, evenings.

**Binocular microscope** with light, carrying case, (4X, 10X, 45X, 100X), American Optical, excellent, \$895. 435-0845, evenings.

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**Donnic Word Processing** - Since 1978, specializing in theses, manuscripts, etc. 453-2769.

**Computerized literature searching**. Expert information retrieval by experienced scientist. All areas. Requests accepted by phone. No red tape! Competitive rates. Satisfaction guaranteed. JL Citation Services, 487-8652.

**David Richards Carpentry**. Certified journeyman NAIT. Complete interior and exterior residential renovations including plumbing and electrical. References available. 437-0794.

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**Professional**, technical editing of manuscripts, research papers, theses. University references. Telephone 433-2462.

### MISCELLANEOUS

**GALOC** invites gay/lesbian staff and faculty to meet our executive and discuss issues of concern to you. 3 October, 5-8 pm, Heritage Lounge, Athabasca Hall.

**BIOMIRA INC.****Post Doctoral Fellow/Research Associate**

BIOMIRA is a publicly traded biotechnology company developing products for cancer diagnosis and therapy.

Three post-doctoral fellowships/Research associateships are available in the department of immunobiology to work on the development of novel monoclonal antibodies to tumor associated antigens. The probes are to be evaluated in an R & D setting for potential utility in cancer diagnosis and therapy. Candidates with a Ph.D. degree in Biochemistry/Immunology/Biology/Chemistry may apply. Relevant experience is desirable and salary scale comparable to AHFMR scales. Positions are renewable every year with satisfactory performance and eventual integration into the company's regular employment status. Interested candidates should submit their resumé to:

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Edmonton, Alberta T6N 1E5  
Attn: Dr. M. R. Suresh

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Super Computing Seminar, conducted by James Barton, Vice President of SGI Computer Systems

Date: Friday, October 5th, 1990  
Place: University of Alberta  
RSVP: Lia, SGI Calgary

Time: 9:00am to 11:30am  
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